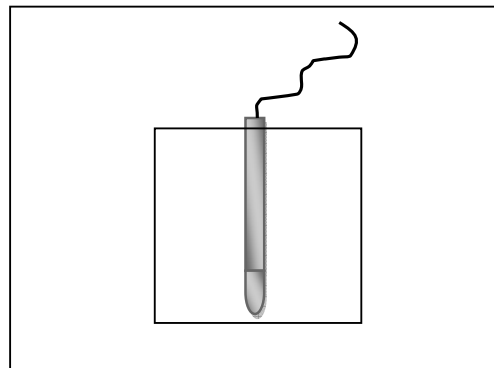


Subsea Temperature Monitoring	
Industrial/ Marine Application	Model: STM-PT100

Feature

- Temperature from -200 to +350 degree Celsius
- Submersible, IP68 sensor
- Class 0.2
- Millivolt, Voltage and Current Output Models

The STM-PT series is a electric resistance sensor, the technology is a metal changes at a fixed rate according to temperature changes. The resistance bulb uses this property to measure temperature. Theoretically, any metal may be used, but because of characteristics such as constant resistance change with temperature, interchangeability and high temperature coefficient, there are few metals suitable for application. We are using platinum(Pt) as a sensor material.



Specifications

Input	
Temperature Range	-200 to +350°C (others range on request)
Allowable Error	+/- (0.15% + 0.002t)°C
Class	A
Standard	Former JIS C1604-1981
Response Time	0.5ms
Sensor Element	Platinum
Wetted Parts	Stainless Steel 316
Sensor enclosure	IP68
Pressure Rating	16Bar, 40 Bar, 64 Bar
Vibration	70g, peak to peak sinusoidal, 5 to 2000 Hz (Random Vibration: 20 to 2000 Hz @=20g peak per MIL-STD.-180E Method 514.4)
Acceleration	100g steady acceleration in any direction 0.032% FS/g for 1bar(15psi) range decreasing logarithmically to 0.0007% FS/g for 400 bar (6000psi) range
Shock	20g, 11ms, per MIL-STD.-810E Method 516.4 Procedure I
Weight	Approx. 500 grams (additional cable: 75g/m)

Individual Specifications

Portable Storage Reels

- Auto Reel



- Manual Reel

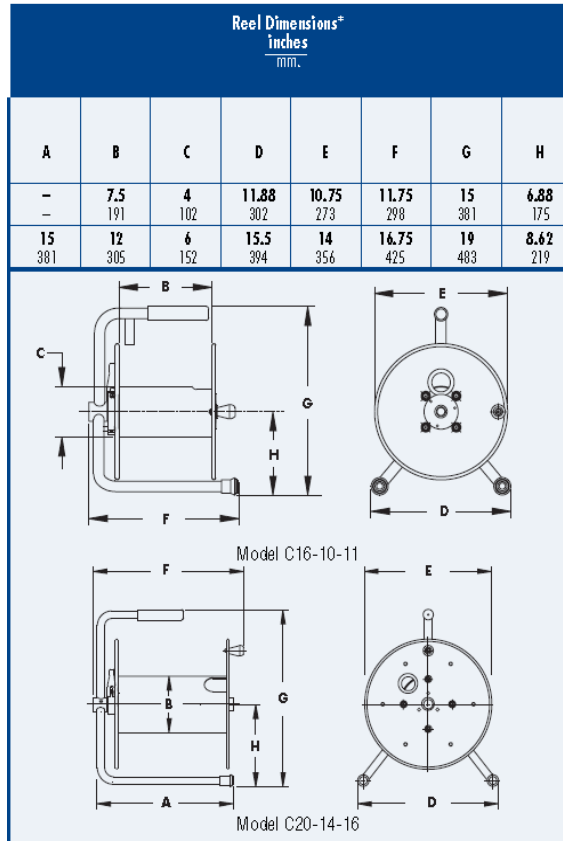


Operating temperature range	Test temperature	Insulation resistance	Withstand voltage, 1 minute
Low temperature	-183°C	5M Ω / 500V	DC 500 V
	Normal temperature	10M Ω / 500V	* 500 V
	100°C	5M Ω / 500V	* 500 V
Medium temperature	Normal temperature	10M Ω / 500V	* 500 V
	350°C	1M Ω / 250V	* 250 V
High temperature	Normal temperature	10M Ω / 500V	* 500 V
	650°C	1M Ω / 250V	* 250 V

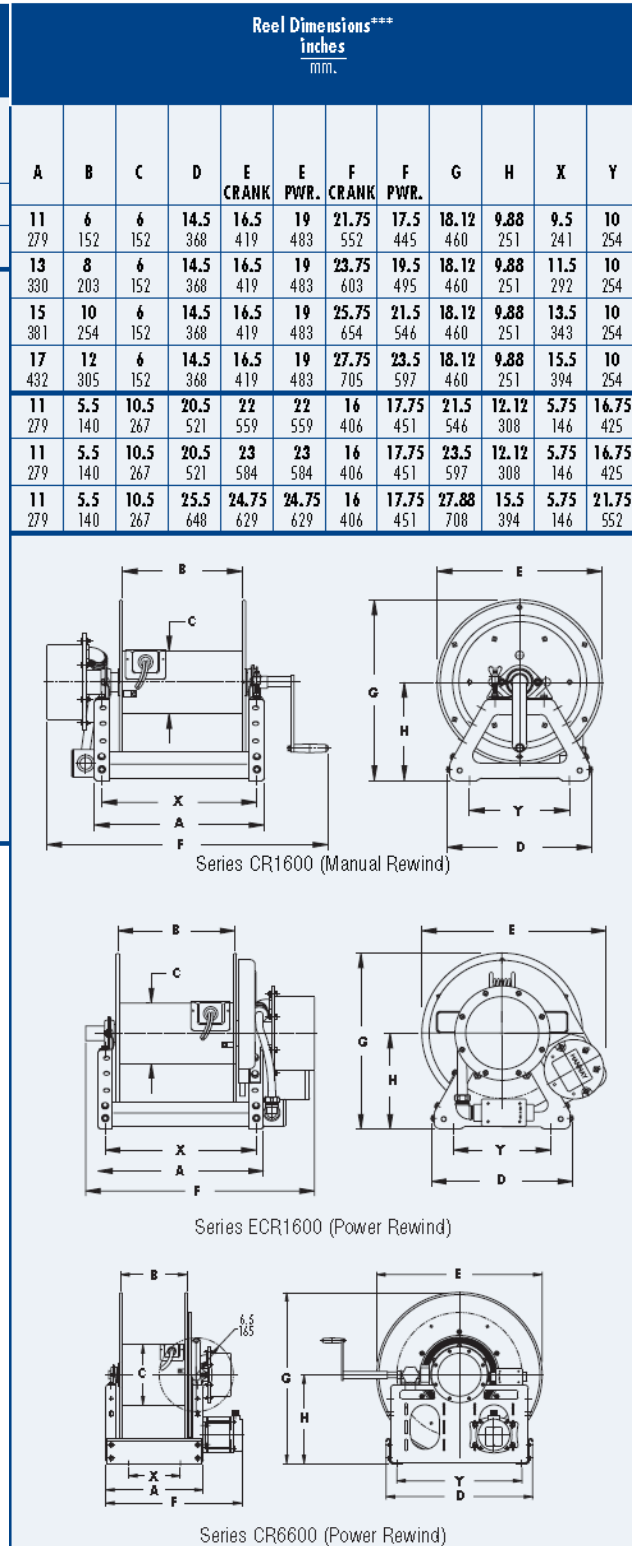
Our policy is one continuous improvement, therefore the information contained in this catalog may be subject to change without prior notice and does not form any part of contract between LKS and customer.

DIMENSIONS

Manual Reel



AUTO Reel



Ordering Information

MODEL NO: STM	
	Temperature Range PT100 : -200 to 350°C J : -210 to 760°C K: -270 to 1150°C T: -270 to 400°C E: -270 to 1000°C N: -270 to 1300°C R: -50 to 1768°C B: 0 to 1820°C
	Reel M – Manual AT – Auto with Motor
	Cable Length 100 – 100M 200 – 200M 300 – 300M 400 – 400M 500 – 500M Others - __M

↓ ↓ ↓ ↓

STM - PT100 – M – 100M (Standard Model)

System Integrator:-

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